



SEQUENCE LISTING

<110> STEINMAN, RALPH A
NUSSENZWEIG, MICHEL C
SWIGGARD, WILLIAM J
JIANG, WANPING

<120> IDENTIFICATION OF DEC, A RECEPTOR WITH
C-TYPE LECTIN DOMAINS, NUCLEIC ACIDS ENCODING DEC, AND USES
THEREOF

<130> 600-1-081CON

<140> 09/586,704

<141> 2000-06-05

<150> 08/381,528

<151> 1995-01-31

<160> 12

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 30

<212> PRT

<213> homo sapiens C terminal DEC-205

<400> 1

Arg	His	Arg	Leu	His	Leu	Ala	Gly	Phe	Ser	Ser	Val	Arg	Tyr	Ala	Gln
1				5					10					15	
Gly	Val	Asn	Glu	Asp	Glu	Ile	Met	Leu	Pro	Ser	Phe	His	Asp		
			20					25					30		

<210> 2

<211> 25

<212> PRT

<213> homo sapiens N terminal DEC-205

<400> 2

Ser	Glu	Ser	Ser	Gly	Asn	Asp	Pro	Phe	Thr	Ile	Val	His	Glu	Asn	Thr
1				5					10					15	
Gly	Lys	Cys	Ile	Gln	Pro	Leu	Phe	Asp							
			20					25							

<210> 3

<211> 1723

<212> PRT

<213> mus musculus predicted DEC-205

<400> 3

Met	Arg	Thr	Gly	Arg	Val	Thr	Pro	Gly	Leu	Ala	Ala	Gly	Leu	Leu	Leu	
1				5					10					15		
Leu	Leu	Leu	Arg	Ser	Phe	Gly	Leu	Val	Glu	Pro	Ser	Glu	Ser	Ser	Gly	
			20					25					30			
Asn	Asp	Pro	Phe	Thr	Ile	Val	His	Glu	Asn	Thr	Gly	Lys	Cys	Ile	Gln	
		35					40					45				
Pro	Leu	Ser	Asp	Trp	Val	Val	Ala	Gln	Asp	Cys	Ser	Gly	Thr	Asn	Asn	
	50					55					60					
Met	Leu	Trp	Lys	Trp	Val	Ser	Gln	His	Arg	Leu	Phe	His	Leu	Glu	Ser	
65					70					75					80	
Gln	Lys	Cys	Leu	Gly	Leu	Asp	Ile	Thr	Lys	Ala	Thr	Asp	Asn	Leu	Arg	
				85					90					95		
Met	Phe	Ser	Cys	Asp	Ser	Thr	Val	Met	Leu	Trp	Trp	Lys	Cys	Glu	His	
			100					105					110			
His	Ser	Leu	Tyr	Thr	Ala	Ala	Gln	Tyr	Arg	Leu	Ala	Leu	Lys	Asp	Gly	
		115					120					125				
Tyr	Ala	Val	Ala	Asn	Thr	Asn	Thr	Ser	Asp	Val	Trp	Lys	Lys	Gly	Gly	
	130					135					140					
Ser	Glu	Glu	Asn	Leu	Cys	Ala	Gln	Pro	Tyr	His	Glu	Ile	Tyr	Thr	Arg	
145					150					155					160	
Asp	Gly	Asn	Ser	Tyr	Gly	Arg	Pro	Cys	Glu	Phe	Pro	Phe	Leu	Ile	Gly	
				165					170					175		
Glu	Thr	Trp	Tyr	His	Asp	Cys	Ile	His	Asp	Glu	Asp	His	Ser	Gly	Pro	
			180					185					190			
Trp	Cys	Ala	Thr	Thr	Leu	Ser	Tyr	Glu	Tyr	Asp	Gln	Lys	Trp	Gly	Ile	
	195						200					205				
Cys	Leu	Leu	Pro	Glu	Ser	Gly	Cys	Glu	Gly	Asn	Trp	Glu	Lys	Asn	Glu	
	210					215					220					
Gln	Ile	Gly	Ser	Cys	Tyr	Gln	Phe	Asn	Asn	Gln	Glu	Ile	Leu	Ser	Trp	
225					230					235					240	
Lys	Glu	Ala	Tyr	Val	Ser	Cys	Gln	Asn	Gln	Gly	Ala	Asp	Leu	Leu	Ser	
				245					250					255		
Ile	His	Ser	Ala	Ala	Glu	Leu	Ala	Tyr	Ile	Thr	Gly	Lys	Glu	Asp	Ile	
			260					265					270			
Ala	Arg	Leu	Val	Trp	Leu	Gly	Leu	Asn	Gln	Leu	Tyr	Ser	Ala	Arg	Gly	
	275						280					285				
Trp	Glu	Trp	Ser	Asp	Phe	Arg	Pro	Leu	Lys	Phe	Leu	Asn	Trp	Asp	Pro	
	290					295					300					
Gly	Thr	Pro	Val	Ala	Pro	Val	Ile	Gly	Gly	Ser	Ser	Cys	Ala	Arg	Met	
305					310					315					320	
Asp	Thr	Glu	Ser	Gly	Leu	Trp	Gln	Ser	Val	Ser	Cys	Glu	Ser	Gln	Gln	
				325					330					335		
Pro	Tyr	Val	Cys	Lys	Lys	Pro	Leu	Asn	Asn	Thr	Leu	Glu	Leu	Pro	Asp	
			340					345					350			
Val	Trp	Thr	Tyr	Thr	Asp	Thr	His	Cys	His	Val	Gly	Trp	Leu	Pro	Asn	
		355					360					365				
Asn	Gly	Phe	Cys	Tyr	Leu	Leu	Ala	Asn	Glu	Ser	Ser	Ser	Trp	Asp	Ala	
	370					375					380					
Ala	His	Leu	Lys	Cys	Lys	Ala	Phe	Gly	Ala	Asp	Leu	Ile	Ser	Met	His	
385					390					395					400	
Ser	Leu	Ala	Asp	Val	Glu	Val	Val	Val	Thr	Lys	Leu	His	Asn	Gly	Asp	
				405					410					415		
Val	Lys	Lys	Glu	Ile	Trp	Thr	Gly	Leu	Lys	Asn	Thr	Asn	Ser	Pro	Ala	
			420				425						430			
Leu	Phe	Gln	Trp	Ser	Asp	Gly	Thr	Glu	Val	Thr	Leu	Thr	Tyr	Trp	Asn	
		435					440					445				
Glu	Asn	Glu	Pro	Ser	Val	Pro	Phe	Asn	Lys	Thr	Pro	Asn	Cys	Val	Ser	

450		455		460
Tyr Leu Gly Lys Leu Gly Gln Trp Lys Val Gln Ser Cys Glu Lys Lys				
465		470		475
Leu Arg Tyr Val Cys Lys Lys Lys Gly Glu Ile Thr Lys Asp Ala Glu				480
		485		490
Ser Asp Lys Leu Cys Pro Pro Asp Glu Gly Trp Lys Arg His Gly Glu				495
		500		505
Thr Cys Tyr Lys Ile Tyr Glu Lys Glu Ala Pro Phe Gly Thr Asn Cys				510
		515		520
Asn Leu Thr Ile Thr Ser Arg Phe Glu Gln Glu Phe Leu Asn Tyr Met				525
		530		535
Met Lys Asn Tyr Asp Lys Ser Leu Arg Lys Tyr Phe Trp Thr Gly Leu				540
545		550		555
Arg Asp Pro Asp Ser Arg Gly Glu Tyr Ser Trp Ala Val Ala Gln Gly				560
		565		570
Val Lys Gln Ala Val Thr Phe Ser Asn Trp Asn Phe Leu Glu Pro Ala				575
		580		585
Ser Pro Gly Gly Cys Val Ala Met Ser Thr Gly Lys Thr Leu Gly Lys				590
		595		600
Trp Glu Val Lys Asn Cys Arg Ser Phe Arg Ala Leu Ser Ile Cys Lys				605
		610		615
Lys Val Ser Glu Pro Gln Glu Pro Glu Glu Ala Ala Pro Lys Pro Asp				620
625		630		635
Asp Pro Cys Pro Glu Gly Trp His Thr Phe Pro Ser Ser Leu Ser Cys				640
		645		650
Tyr Lys Val Phe His Ile Glu Arg Ile Val Arg Lys Arg Asn Trp Glu				655
		660		665
Glu Ala Glu Arg Phe Cys Gln Ala Leu Gly Ala His Leu Pro Ser Phe				670
		675		680
Ser Arg Arg Glu Glu Ile Lys Asp Phe Val His Leu Leu Lys Asp Gln				685
		690		695
Phe Ser Gly Gln Arg Trp Leu Trp Ile Gly Leu Asn Lys Arg Ser Pro				700
705		710		715
Asp Leu Gln Gly Ser Trp Gln Trp Ser Asp Arg Thr Pro Val Ser Ala				720
		725		730
Val Met Met Glu Pro Glu Phe Gln Gln Asp Phe Asp Ile Arg Asp Cys				735
		740		745
Ala Ala Ile Lys Val Leu Asp Val Pro Trp Arg Arg Val Trp His Leu				750
		755		760
Tyr Glu Asp Lys Asp Tyr Ala Tyr Trp Lys Pro Phe Ala Cys Asp Ala				765
		770		775
Lys Leu Glu Trp Val Cys Gln Ile Pro Lys Gly Ser Thr Pro Gln Met				780
785		790		795
Pro Asp Trp Tyr Asn Pro Glu Arg Thr Gly Ile His Gly Pro Pro Val				800
		805		810
Ile Ile Glu Gly Ser Glu Tyr Trp Phe Val Ala Asp Pro His Leu Asn				815
		820		825
Tyr Glu Glu Ala Val Leu Tyr Cys Ala Ser Asn His Ser Phe Leu Ala				830
		835		840
Thr Ile Thr Ser Phe Thr Gly Leu Lys Ala Ile Lys Asn Lys Leu Ala				845
		850		855
Asn Ile Ser Gly Glu Glu Gln Lys Trp Trp Val Lys Thr Ser Glu Asn				860
865		870		875
Pro Ile Asp Arg Tyr Phe Leu Gly Ser Arg Arg Arg Leu Trp His His				880
		885		890
Phe Pro Met Thr Phe Gly Asp Glu Cys Leu His Met Ser Ala Lys Thr				895
		900		905
				910

Trp	Leu	Val	Asp	Leu	Ser	Lys	Arg	Ala	Asp	Cys	Asn	Ala	Lys	Leu	Pro	915	920	925
Phe	Ile	Cys	Glu	Arg	Tyr	Asn	Val	Ser	Ser	Leu	Glu	Lys	Tyr	Ser	Pro	930	935	940
Asp	Pro	Ala	Ala	Lys	Val	Gln	Cys	Thr	Glu	Lys	Trp	Ile	Pro	Phe	Gln	945	950	955
Asn	Lys	Cys	Phe	Leu	Lys	Val	Asn	Ser	Gly	Pro	Val	Thr	Phe	Ser	Gln	965	970	975
Ala	Ser	Gly	Ile	Cys	His	Ser	Tyr	Gly	Gly	Thr	Leu	Pro	Ser	Val	Leu	980	985	990
Ser	Arg	Gly	Glu	Gln	Asp	Phe	Ile	Ser	Leu	Leu	Pro	Glu	Met	Glu		995	1000	1005
Ala	Ser	Leu	Trp	Ile	Gly	Leu	Arg	Trp	Thr	Ala	Tyr	Glu	Arg	Ile	Asn	1010	1015	1020
Arg	Trp	Thr	Asp	Asn	Arg	Glu	Leu	Thr	Tyr	Ser	Asn	Phe	His	Pro	Leu	1025	1030	1035
Leu	Val	Gly	Arg	Arg	Leu	Ser	Ile	Pro	Thr	Asn	Phe	Phe	Asp	Asp	Glu	1045	1050	1055
Ser	His	Phe	His	Cys	Ala	Leu	Ile	Leu	Asn	Leu	Lys	Lys	Ser	Pro	Leu	1060	1065	1070
Thr	Gly	Thr	Trp	Asn	Phe	Thr	Ser	Cys	Ser	Glu	Arg	His	Ser	Leu	Ser	1075	1080	1085
Leu	Cys	Gln	Lys	Tyr	Ser	Glu	Thr	Glu	Asp	Gly	Gln	Pro	Trp	Glu	Asn	1090	1095	1100
Thr	Ser	Lys	Thr	Val	Lys	Tyr	Leu	Asn	Asn	Leu	Tyr	Lys	Ile	Ile	Ser	1105	1110	1115
Lys	Pro	Leu	Thr	Trp	His	Gly	Ala	Leu	Lys	Glu	Cys	Met	Lys	Glu	Lys	1125	1130	1135
Met	Arg	Leu	Val	Ser	Ile	Thr	Asp	Pro	Tyr	Gln	Gln	Ala	Phe	Leu	Ala	1140	1145	1150
Val	Gln	Ala	Thr	Leu	Arg	Asn	Ser	Ser	Phe	Trp	Ile	Gly	Leu	Ser	Ser	1155	1160	1165
Gln	Asp	Asp	Glu	Leu	Asn	Phe	Gly	Trp	Ser	Asp	Gly	Lys	Arg	Leu	Gln	1170	1175	1180
Phe	Ser	Asn	Trp	Ala	Gly	Ser	Asn	Glu	Gln	Leu	Asp	Asp	Cys	Val	Ile	1185	1190	1195
Leu	Asp	Thr	Asp	Gly	Phe	Trp	Lys	Thr	Ala	Asp	Cys	Asp	Asp	Asn	Gln	1205	1210	1215
Pro	Gly	Ala	Ile	Cys	Tyr	Tyr	Pro	Gly	Asn	Glu	Thr	Glu	Glu	Glu	Val	1220	1225	1230
Arg	Ala	Leu	Asp	Thr	Ala	Lys	Cys	Pro	Ser	Pro	Val	Gln	Ser	Thr	Pro	1235	1240	1245
Trp	Ile	Pro	Phe	Gln	Asn	Ser	Cys	Tyr	Asn	Phe	Met	Ile	Thr	Asn	Asn	1250	1255	1260
Arg	His	Lys	Thr	Val	Thr	Pro	Glu	Glu	Val	Gln	Ser	Thr	Cys	Glu	Lys	1265	1270	1275
Leu	His	Pro	Lys	Ala	His	Ser	Leu	Ser	Ile	Arg	Asn	Glu	Glu	Glu	Asn	1285	1290	1295
Thr	Phe	Val	Val	Glu	Gln	Leu	Leu	Tyr	Phe	Asn	Tyr	Ile	Ala	Ser	Trp	1300	1305	1310
Val	Met	Leu	Gly	Ile	Thr	Tyr	Glu	Asn	Asn	Ser	Leu	Met	Trp	Phe	Asp	1315	1320	1325
Lys	Thr	Ala	Leu	Ser	Tyr	Thr	His	Trp	Arg	Thr	Gly	Arg	Pro	Thr	Val	1330	1335	1340
Lys	Asn	Gly	Lys	Phe	Leu	Ala	Gly	Leu	Ser	Thr	Asp	Gly	Phe	Trp	Asp	1345	1350	1355
Ile	Gln	Ser	Phe	Asn	Val	Ile	Glu	Glu	Thr	Leu	His	Phe	Tyr	Gln	His			

Arg	Glu	Trp	Gln	Asp	Lys	Gly	Ile	Phe	Ile	Ile	Gln	Ser	Glu	Asn	Leu	
		35					40					45				
Glu	Lys	Cys	Ile	Gln	Ala	Ser	Lys	Ser	Thr	Leu	Thr	Leu	Glu	Asn	Cys	
	50					55					60					
Lys	Pro	Pro	Asn	Lys	Tyr	Met	Leu	Trp	Lys	Trp	Val	Ser	Asn	His	Arg	
65					70					75					80	
Leu	Phe	Asn	Ile	Gly	Gly	Ser	Gly	Cys	Leu	Gly	Leu	Asn	Val	Ser	Ser	
			85						90					95		
Pro	Glu	Gln	Pro	Leu	Ser	Ile	Tyr	Glu	Cys	Asp	Ser	Thr	His	Val	Ser	
			100					105					110			
Leu	Lys	Trp	His	Cys	Asn	Lys	Lys	Thr	Ile	Thr	Gly	Pro	Leu	Gln	Tyr	
		115					120					125				
Leu	Val	Gln	Val	Lys	Gln	Asp	Asn	Thr	Leu	Val	Ala	Ser	Arg	Lys	Tyr	
	130					135					140					
Leu	His	Lys	Trp	Val	Ser	Tyr	Met	Ser	Gly	Gly	Gly	Gly	Ile	Cys	Asp	
145					150				155						160	
Tyr	Leu	His	Lys	Asp	Leu	Tyr	Thr	Ile	Lys	Gly	Asn	Ala	His	Gly	Thr	
			165						170					175		
Pro	Cys	Met	Phe	Pro	Phe	Gln	Tyr	Asn	Gln	Gln	Trp	His	His	Glu	Cys	
			180					185					190			
Thr	Arg	Glu	Gly	Arg	Glu	Asp	Asn	Leu	Leu	Trp	Cys	Ala	Thr	Thr	Ser	
	195					200						205				
Arg	Tyr	Glu	Arg	Asp	Glu	Lys	Trp	Gly	Phe	Cys	Pro	Asp	Pro	Thr	Ser	
	210					215					220					
Thr	Glu	Val	Gly	Cys	Asp	Ala	Val	Trp	Glu	Lys	Asp	Leu	His	Ser	Arg	
225					230					235					240	
Ile	Cys	Tyr	Gln	Phe	Asn	Leu	Leu	Ser	Ser	Leu	Ser	Trp	Ser	Glu	Ala	
			245						250					255		
His	Ser	Ser	Cys	Gln	Met	Gln	Gly	Ala	Ala	Leu	Leu	Ser	Ile	Ala	Asp	
			260					265					270			
Glu	Thr	Glu	Glu	Asn	Phe	Val	Arg	Lys	His	Leu	Gly	Ser	Glu	Ala	Val	
	275						280					285				
Glu	Val	Trp	Met	Gly	Leu	Asn	Gln	Leu	Asp	Glu	Asp	Ala	Gly	Trp	Gln	
	290					295					300					
Trp	Ser	Asp	Arg	Thr	Pro	Leu	Asn	Tyr	Leu	Asn	Trp	Lys	Pro	Glu	Ile	
305					310					315					320	
Asn	Phe	Glu	Pro	Phe	Val	Glu	Tyr	His	Cys	Gly	Thr	Phe	Asn	Ala	Phe	
			325						330					335		
Met	Pro	Lys	Ala	Trp	Lys	Ser	Arg	Asp	Cys	Glu	Ser	Thr	Leu	Pro	Tyr	
			340					345					350			
Val	Cys	Lys	Lys	Tyr	Leu	Asn	Pro	Thr	Asp	His	Gly	Val	Val	Glu	Lys	
		355					360					365				
Asp	Ala	Trp	Lys	Tyr	Tyr	Ala	Thr	His	Cys	Glu	Pro	Gly	Trp	Asn	Pro	
	370					375					380					
His	Asn	Arg	Asn	Cys	Tyr	Lys	Leu	Gln	Lys	Glu	Lys	Lys	Thr	Trp	Asn	
385					390					395					400	
Glu	Ala	Leu	Gln	Ser	Cys	Gln	Ser	Asn	Asn	Ser	Val	Leu	Thr	Asp	Ile	
			405						410					415		
Thr	Ser	Leu	Ala	Glu	Val	Glu	Phe	Leu	Val	Thr	Leu	Leu	Gly	Asp	Glu	
			420					425					430			
Asn	Ala	Ser	Glu	Thr	Trp	Ile	Gly	Leu	Ser	Ser	His	Lys	Ile	Pro	Val	
		435					440					445				
Ser	Phe	Glu	Trp	Ser	Asn	Gly	Ser	Ser	Val	Thr	Phe	Thr	Asn	Trp	His	
	450					455					460					
Thr	Leu	Glu	Pro	His	Ile	Phe	Pro	Asn	Arg	Ser	Gln	Leu	Cys	Val	Ser	
465					470					475					480	
Ala	Glu	Gln	Ser	Glu	Gly	His	Trp	Lys	Val	Lys	Asn	Cys	Glu	Glu	Thr	

				485					490					495			
Leu	Phe	Tyr	Leu	Cys	Lys	Lys	Thr	His	Leu	Val	Leu	Ser	Asp	Thr	Glu		
			500					505					510				
Ser	Gly	Cys	Gln	Lys	Gly	Trp	Glu	Arg	His	Gly	Lys	Phe	Cys	Tyr	Lys		
		515					520					525					
Ile	Asp	Thr	Val	Leu	Arg	Ser	Phe	Asp	His	Ala	Ser	Ser	Gly	Tyr	Tyr		
	530					535					540						
Cys	Pro	Pro	Ala	Leu	Ile	Thr	Ile	Thr	Ser	Arg	Phe	Glu	Gln	Ala	Phe		
545					550					555					560		
Ile	Thr	Ser	Leu	Ile	Ser	Ser	Val	Val	Lys	Thr	Lys	Asp	Thr	Tyr	Phe		
			565						570					575			
Trp	Ile	Ala	Leu	Gln	Asp	Gln	Asn	Asn	Thr	Gly	Glu	Tyr	Thr	Trp	Lys		
			580					585					590				
Thr	Ala	Gly	Gln	Gln	Leu	Glu	Pro	Val	Lys	Tyr	Thr	His	Trp	Asn	Thr		
		595					600					605					
Arg	Gln	Pro	Arg	Tyr	Ser	Gly	Gly	Cys	Val	Val	Met	Arg	Gly	Arg	Ser		
	610					615					620						
His	Pro	Gly	Arg	Trp	Glu	Val	Arg	Asp	Cys	Arg	His	Phe	Lys	Ala	Met		
625					630					635					640		
Ser	Leu	Cys	Lys	Gln	Pro	Val	Glu	Asn	Arg	Glu	Lys	Thr	Lys	Gln	Glu		
			645					650						655			
Glu	Gly	Trp	Pro	Phe	His	Pro	Cys	Tyr	Leu	Asp	Trp	Glu	Ser	Glu	Pro		
			660					665					670				
Gly	Leu	Ala	Ser	Cys	Phe	Lys	Val	Phe	His	Ser	Glu	Lys	Val	Leu	Met		
	675						680					685					
Lys	Arg	Thr	Trp	Arg	Gln	Ala	Glu	Glu	Phe	Cys	Glu	Glu	Phe	Gly	Ala		
	690					695					700						
His	Leu	Ala	Ser	Phe	Ala	His	Ile	Glu	Glu	Glu	Asn	Phe	Val	Asn	Glu		
705					710					715					720		
Leu	Leu	His	Ser	Lys	Phe	Asn	Arg	Thr	Glu	Glu	Arg	Gln	Phe	Trp	Ile		
			725						730					735			
Gly	Phe	Asn	Lys	Arg	Asn	Pro	Leu	Asn	Ala	Gly	Ser	Trp	Glu	Trp	Ser		
			740					745					750				
Asp	Gly	Thr	Pro	Val	Val	Ser	Ser	Phe	Leu	Asp	Asn	Ser	Tyr	Phe	Gly		
	755						760					765					
Glu	Asp	Ala	Arg	Asn	Cys	Ala	Val	Tyr	Lys	Ala	Asn	Lys	Thr	Leu	Leu		
	770					775					780						
Pro	Ser	Tyr	Cys	Gly	Ser	Lys	Arg	Glu	Trp	Ile	Cys	Lys	Ile	Pro	Arg		
785					790					795					800		
Asp	Val	Arg	Pro	Lys	Val	Pro	Pro	Trp	Tyr	Gln	Tyr	Asp	Ala	Pro	Trp		
			805						810					815			
Leu	Phe	Tyr	Gln	Asp	Ala	Glu	Tyr	Leu	Phe	His	Ile	Ser	Ala	Ser	Glu		
			820					825					830				
Trp	Ser	Ser	Phe	Glu	Phe	Val	Cys	Gly	Trp	Leu	Arg	Ser	Asp	Ile	Leu		
	835						840					845					
Thr	Ile	His	Ser	Ala	His	Glu	Gln	Glu	Phe	Ile	His	Ser	Lys	Ile	Arg		
	850					855					860						
Ala	Leu	Ser	Lys	Tyr	Gly	Val	Asn	Trp	Trp	Ile	Gly	Leu	Arg	Glu	Glu		
865					870					875					880		
Arg	Ala	Ser	Asp	Glu	Phe	Arg	Trp	Arg	Asp	Gly	Ser	Pro	Val	Ile	Tyr		
			885						890					895			
Gln	Asn	Trp	Asp	Lys	Gly	Lys	Glu	Arg	Ser	Met	Gly	Leu	Asn	Glu	Ser		
	900							905					910				
Gln	Arg	Cys	Gly	Phe	Ile	Ser	Ser	Ile	Thr	Gly	Leu	Trp	Ala	Ser	Glu		
	915						920					925					
Glu	Cys	Ser	Ile	Ser	Met	Pro	Ser	Ile	Cys	Lys	Arg	Lys	Lys	Val	Trp		
	930					935					940						

Val	Ile	Glu	Lys	Lys	Lys	Asp	Ile	Pro	Lys	Gln	His	Gly	Thr	Cys	Pro	
945					950					955					960	
Lys	Gly	Trp	Leu	Tyr	Phe	Asp	Tyr	Lys	Cys	Leu	Leu	Leu	Lys	Ile	Pro	
			965						970					975		
Glu	Gly	Pro	Ser	Asp	Trp	Lys	Asn	Trp	Thr	Ser	Ala	Gln	Asp	Phe	Cys	
			980					985					990			
Val	Glu	Glu	Gly	Gly	Thr	Leu	Val	Ala	Ile	Glu	Asn	Glu	Val	Glu	Gln	
		995				1000						1005				
Ala	Phe	Ile	Thr	Met	Asn	Leu	Phe	Gly	His	Thr	Thr	Asn	Val	Trp	Ile	
	1010					1015					1020					
Gly	Leu	Gln	Asp	Asp	Asp	Tyr	Glu	Lys	Trp	Leu	Asn	Gly	Arg	Pro	Val	
1025					1030					1035					1040	
Ser	Tyr	Ser	Asn	Trp	Ser	Pro	Phe	Asp	Thr	Lys	Asn	Ile	Pro	Asn	His	
			1045						1050					1055		
Asn	Thr	Thr	Glu	Val	Gln	Lys	Arg	Ile	Pro	Leu	Cys	Gly	Leu	Leu	Ser	
			1060					1065					1070			
Asn	Asn	Pro	Asn	Phe	His	Phe	Thr	Gly	Lys	Trp	Tyr	Phe	Asp	Cys	Arg	
		1075					1080					1085				
Glu	Gly	Tyr	Gly	Phe	Val	Cys	Glu	Lys	Met	Gln	Asp	Ala	Ser	Gly	His	
	1090					1095					1100					
Ser	Ile	Asn	Thr	Ser	Asp	Met	Tyr	Pro	Ile	Pro	Asn	Thr	Leu	Glu	Tyr	
1105					1110					1115					1120	
Gly	Asn	Arg	Thr	Tyr	Lys	Ile	Ile	Asn	Ala	Asn	Met	Thr	Trp	Tyr	Thr	
			1125						1130					1135		
Ala	Leu	Lys	Thr	Cys	Leu	Met	His	Gly	Ala	Glu	Leu	Ala	Ser	Ile	Thr	
			1140					1145					1150			
Asp	Gln	Tyr	His	Gln	Ser	Phe	Leu	Thr	Val	Ile	Leu	Asn	Arg	Val	Gly	
		1155					1160					1165				
Tyr	Ala	His	Trp	Ile	Gly	Leu	Phe	Thr	Glu	Asp	Asn	Gly	Leu	Ser	Phe	
	1170					1175					1180					
Asp	Trp	Ser	Asp	Gly	Thr	Lys	Ser	Ser	Phe	Thr	Phe	Trp	Lys	Asp	Asp	
1185					1190					1195					1200	
Glu	Ser	Ser	Phe	Leu	Gly	Asp	Cys	Val	Phe	Ala	Asp	Thr	Ser	Gly	Arg	
			1205						1210					1215		
Trp	Ser	Ser	Thr	Ala	Cys	Glu	Ser	Tyr	Leu	Gln	Gly	Ala	Ile	Cys	Gln	
			1220					1225					1230			
Val	Pro	Thr	Glu	Thr	Arg	Leu	Ser	Gly	Arg	Leu	Glu	Leu	Cys	Ser	Glu	
		1235				1240						1245				
Thr	Ser	Ile	Pro	Trp	Ile	Lys	Phe	Lys	Ser	Asn	Cys	Tyr	Ser	Phe	Ser	
	1250					1255					1260					
Thr	Val	Leu	Glu	Ser	Thr	Ser	Phe	Glu	Ala	Ala	His	Glu	Phe	Cys	Lys	
1265					1270					1275					1280	
Lys	Lys	Gly	Ser	Asn	Leu	Leu	Thr	Ile	Lys	Asp	Glu	Ala	Glu	Asn	Ser	
			1285						1290					1295		
Phe	Leu	Leu	Glu	Glu	Leu	Leu	Ala	Phe	Arg	Ser	Ser	Val	Gln	Met	Ile	
			1300					1305					1310			
Trp	Leu	Asn	Ala	Gln	Phe	Asp	Gly	Asp	Asn	Glu	Thr	Ile	Lys	Trp	Phe	
		1315					1320						1325			
Asp	Gly	Thr	Pro	Thr	Asp	Gln	Ser	Asn	Trp	Gly	Ile	Arg	Lys	Pro	Glu	
	1330					1335					1340					
Val	Tyr	His	Phe	Lys	Pro	His	Leu	Cys	Val	Ala	Leu	Arg	Ile	Pro	Glu	
1345					1350					1355					1360	
Gly	Val	Trp	Gln	Leu	Ser	Ser	Cys	Gln	Asp	Lys	Lys	Gly	Phe	Ile	Cys	
			1365						1370					1375		
Lys	Met	Glu	Ala	Asp	Ile	His	Thr	Val	Lys	Lys	His	Pro	Gly	Lys	Gly	
			1380					1385					1390			
Pro	Ser	His	Ser	Val	Ile	Pro	Leu	Thr	Val	Ala	Leu	Thr	Leu	Leu	Val	

1395	1400	1405
Ile Leu Ala Ile Ser Thr	Leu Ser Phe Cys Met	Tyr Lys His Ser His
1410	1415	1420
Ile Ile Phe Gly Arg	Leu Ala Gln Phe Arg Asn	Pro Tyr Tyr Pro Ser
1425	1430	1435
Ala Asn Phe Ser Thr Val	His Leu Glu Glu Asn	Ile Leu Ile Ser Asp
1445	1450	1455
Leu Glu Lys Asn Asp Gln		
1460		

<210> 5
 <211> 1457
 <212> PRT
 <213> homo sapiens macrophage mannose receptor

<400> 5

Met Arg Leu Pro Leu Leu Leu Val Phe Ala Ser Val Ile Pro Gly Ala	
1 5 10 15	
Val Leu Leu Leu Asp Thr Arg Gln Phe Leu Ile Tyr Asn Glu Asp His	
20 25 30	
Lys Arg Cys Val Asp Ala Val Ser Pro Ser Ala Val Gln Thr Ala Ala	
35 40 45	
Cys Asn Gln Asp Ala Glu Ser Gln Lys Phe Arg Trp Val Ser Glu Ser	
50 55 60	
Gln Ile Met Ser Val Ala Phe Lys Leu Cys Leu Gly Val Pro Ser Lys	
65 70 75 80	
Thr Asp Trp Val Ala Ile Thr Leu Tyr Ala Cys Asp Ser Lys Ser Glu	
85 90 95	
Phe Gln Lys Trp Glu Cys Lys Asn Asp Thr Leu Leu Gly Ile Lys Gly	
100 105 110	
Glu Asp Leu Phe Phe Asn Tyr Gly Asn Arg Gln Glu Lys Asn Ile Met	
115 120 125	
Leu Tyr Lys Gly Ser Gly Leu Trp Ser Arg Trp Lys Ile Tyr Gly Thr	
130 135 140	
Thr Asp Asn Leu Cys Ser Arg Gly Tyr Glu Ala Met Tyr Thr Leu Leu	
145 150 155 160	
Gly Asn Ala Asn Gly Ala Thr Cys Ala Phe Pro Phe Lys Phe Glu Asn	
165 170 175	
Lys Trp Tyr Ala Asp Cys Thr Ser Ala Gly Arg Ser Asp Gly Trp Leu	
180 185 190	
Trp Cys Gly Thr Thr Thr Asp Tyr Asp Thr Asp Lys Leu Phe Gly Tyr	
195 200 205	
Cys Pro Leu Lys Phe Glu Gly Ser Glu Ser Leu Trp Asn Lys Asp Pro	
210 215 220	
Leu Thr Ser Val Ser Tyr Gln Ile Asn Ser Lys Ser Ala Leu Thr Trp	
225 230 235 240	
His Gln Ala Arg Lys Ser Cys Gln Gln Gln Asn Ala Glu Leu Leu Ser	
245 250 255	
Ile Thr Glu Ile His Glu Gln Thr Tyr Leu Thr Gly Leu Thr Ser Ser	
260 265 270	
Leu Thr Ser Gly Leu Trp Ile Gly Leu Asn Ser Leu Ser Phe Asn Ser	
275 280 285	
Gly Trp Gln Trp Ser Asp Arg Ser Pro Phe Arg Tyr Leu Asn Trp Leu	
290 295 300	
Pro Gly Ser Pro Ser Ala Glu Pro Gly Lys Ser Cys Val Ser Leu Asn	
305 310 315 320	

Pro	Gly	Lys	Asn	Ala	Lys	Trp	Glu	Asn	Leu	Glu	Cys	Val	Gln	Lys	Leu	325	330	335
Gly	Tyr	Ile	Cys	Lys	Lys	Gly	Asn	Thr	Thr	Leu	Asn	Ser	Phe	Val	Ile	340	345	350
Pro	Ser	Glu	Ser	Asp	Val	Pro	Thr	His	Cys	Pro	Ser	Gln	Trp	Trp	Pro	355	360	365
Tyr	Ala	Gly	His	Cys	Tyr	Lys	Ile	His	Arg	Asp	Glu	Lys	Lys	Ile	Gln	370	375	380
Arg	Asp	Ala	Leu	Thr	Thr	Cys	Arg	Lys	Glu	Gly	Gly	Asp	Leu	Thr	Ser	385	390	395
Ile	His	Thr	Ile	Glu	Glu	Leu	Asp	Phe	Ile	Ile	Ser	Gln	Leu	Gly	Tyr	405	410	415
Glu	Pro	Asn	Asp	Glu	Leu	Trp	Ile	Gly	Leu	Asn	Asp	Ile	Lys	Ile	Gln	420	425	430
Met	Tyr	Phe	Glu	Trp	Ser	Asp	Gly	Thr	Pro	Val	Thr	Phe	Thr	Lys	Trp	435	440	445
Leu	Arg	Gly	Glu	Pro	Ser	His	Glu	Asn	Asn	Arg	Gln	Glu	Asp	Cys	Val	450	455	460
Val	Met	Lys	Gly	Lys	Asp	Gly	Tyr	Trp	Ala	Asp	Arg	Gly	Cys	Glu	Trp	465	470	475
Pro	Leu	Gly	Tyr	Ile	Cys	Lys	Met	Lys	Ser	Arg	Ser	Gln	Gly	Pro	Glu	485	490	495
Ile	Val	Glu	Val	Glu	Lys	Gly	Cys	Arg	Lys	Gly	Trp	Lys	Lys	His	His	500	505	510
Phe	Tyr	Cys	Tyr	Met	Ile	Gly	His	Thr	Leu	Ser	Thr	Phe	Ala	Glu	Ala	515	520	525
Asn	Gln	Thr	Cys	Asn	Asn	Glu	Asn	Ala	Tyr	Leu	Thr	Thr	Ile	Glu	Asp	530	535	540
Arg	Tyr	Glu	Gln	Ala	Phe	Leu	Thr	Ser	Phe	Val	Gly	Leu	Arg	Pro	Glu	545	550	555
Lys	Tyr	Phe	Trp	Thr	Gly	Leu	Ser	Asp	Ile	Gln	Thr	Lys	Gly	Thr	Phe	565	570	575
Gln	Trp	Thr	Ile	Glu	Glu	Glu	Val	Arg	Phe	Thr	His	Trp	Asn	Ser	Asp	580	585	590
Met	Pro	Gly	Arg	Lys	Pro	Gly	Cys	Val	Ala	Met	Arg	Thr	Gly	Ile	Ala	595	600	605
Gly	Gly	Leu	Trp	Asp	Val	Leu	Lys	Cys	Asp	Glu	Lys	Ala	Lys	Phe	Val	610	615	620
Cys	Lys	His	Trp	Ala	Glu	Gly	Val	Thr	His	Pro	Pro	Lys	Pro	Thr	Thr	625	630	635
Thr	Pro	Glu	Pro	Lys	Cys	Pro	Glu	Asp	Trp	Gly	Ala	Ser	Ser	Arg	Thr	645	650	655
Ser	Leu	Cys	Phe	Lys	Leu	Tyr	Ala	Lys	Gly	Lys	His	Glu	Lys	Lys	Thr	660	665	670
Trp	Phe	Glu	Ser	Arg	Asp	Phe	Cys	Arg	Ala	Leu	Gly	Gly	Asp	Leu	Ala	675	680	685
Ser	Ile	Asn	Asn	Lys	Glu	Glu	Gln	Gln	Thr	Ile	Trp	Arg	Leu	Ile	Thr	690	695	700
Ala	Ser	Gly	Ser	Tyr	His	Lys	Leu	Phe	Trp	Leu	Gly	Leu	Thr	Tyr	Gly	705	710	715
Ser	Pro	Ser	Glu	Gly	Phe	Thr	Trp	Ser	Asp	Gly	Ser	Pro	Val	Ser	Tyr	725	730	735
Glu	Asn	Trp	Ala	Tyr	Gly	Glu	Pro	Asn	Asn	Tyr	Gln	Asn	Val	Glu	Tyr	740	745	750
Cys	Gly	Glu	Leu	Lys	Gly	Asp	Pro	Thr	Met	Ser	Trp	Asn	Asp	Ile	Asn	755	760	765
Cys	Glu	His	Leu	Asn	Asn	Trp	Ile	Cys	Gln	Ile	Gln	Lys	Gly	Gln	Thr			

770		775		780
Pro Lys Pro Glu Pro Thr Pro Ala Pro Gln Asp Asn Pro Pro Val Thr				
785		790		800
Glu Asp Gly Trp Val Ile Tyr Lys Asp Tyr Gln Tyr Tyr Phe Ser Lys				
	805		810	815
Glu Lys Glu Thr Met Asp Asn Ala Arg Ala Phe Cys Lys Arg Asn Phe				
	820		825	830
Gly Asp Leu Val Ser Ile Gln Ser Glu Ser Glu Lys Lys Phe Leu Trp				
	835		840	845
Lys Tyr Val Asn Arg Asn Asp Ala Gln Ser Ala Tyr Phe Ile Gly Leu				
	850		855	860
Leu Ile Ser Leu Asp Lys Lys Phe Ala Trp Met Asp Gly Ser Lys Val				
865		870		880
Asp Tyr Val Ser Trp Ala Thr Gly Glu Pro Asn Phe Ala Asn Glu Asp				
	885		890	895
Glu Asn Cys Val Thr Met Tyr Ser Asn Ser Gly Phe Trp Asn Asp Ile				
	900		905	910
Asn Cys Gly Tyr Pro Asn Ala Phe Ile Cys Gln Arg His Asn Ser Ser				
	915		920	925
Ile Asn Ala Thr Thr Val Met Pro Thr Met Pro Ser Val Pro Ser Gly				
	930		935	940
Cys Lys Glu Gly Trp Asn Phe Tyr Ser Asn Lys Cys Phe Lys Ile Phe				
945		950		960
Gly Phe Met Glu Glu Glu Arg Lys Asn Trp Gln Glu Ala Arg Lys Ala				
	965		970	975
Cys Ile Gly Phe Gly Gly Asn Leu Val Ser Ile Gln Asn Glu Lys Glu				
	980		985	990
Gln Ala Phe Leu Thr Tyr His Met Lys Asp Ser Thr Phe Ser Ala Trp				
	995		1000	1005
Thr Gly Leu Asn Asp Val Asn Ser Glu His Thr Phe Leu Trp Thr Asp				
	1010		1015	1020
Gly Arg Gly Val His Tyr Thr Asn Trp Gly Lys Gly Tyr Pro Gly Gly				
1025		1030		1040
Arg Arg Ser Ser Leu Ser Tyr Glu Asp Ala Asp Cys Val Val Ile Ile				
	1045		1050	1055
Gly Gly Ala Ser Asn Glu Ala Gly Lys Trp Met Asp Asp Thr Cys Asp				
	1060		1065	1070
Ser Lys Arg Gly Tyr Ile Cys Gln Thr Arg Ser Asp Pro Ser Leu Thr				
	1075		1080	1085
Asn Pro Pro Ala Thr Ile Gln Thr Asp Gly Phe Val Lys Tyr Gly Lys				
	1090		1095	1100
Ser Ser Tyr Ser Leu Met Arg Gln Lys Phe Gln Trp His Glu Ala Glu				
1105		1110		1120
Thr Tyr Cys Lys Leu His Asn Ser Leu Ile Ala Ser Ile Leu Asp Pro				
	1125		1130	1135
Tyr Ser Asn Ala Phe Ala Trp Leu Gln Met Glu Thr Ser Asn Glu Arg				
	1140		1145	1150
Val Trp Ile Ala Leu Asn Ser Asn Leu Thr Asp Asn Gln Tyr Thr Trp				
	1155		1160	1165
Thr Asp Lys Trp Arg Val Arg Tyr Thr Asn Trp Ala Ala Asp Glu Pro				
	1170		1175	1180
Lys Leu Lys Ser Ala Cys Val Tyr Leu Asp Leu Asp Gly Tyr Trp Lys				
1185		1190		1200
Thr Ala His Cys Asn Glu Ser Phe Tyr Phe Leu Cys Lys Arg Ser Asp				
	1205		1210	1215
Glu Ile Pro Ala Thr Glu Pro Pro Gln Leu Pro Gly Arg Cys Pro Glu				
	1220		1225	1230

Ser Asp His Thr Ala Trp Glu Ile Pro Phe His Gly His Cys Tyr Tyr
 1235 1240 1245
 Ile Glu Ser Ser Tyr Thr Arg Asn Trp Gly Gln Ala Ser Leu Glu Cys
 1250 1255 1260
 Leu Arg Met Gly Ser Ser Leu Val Ser Ile Glu Ser Ala Ala Glu Ser
 1265 1270 1275 1280
 Ser Phe Leu Ser Tyr Arg Val Glu Pro Leu Lys Ser Lys Thr Asn Phe
 1285 1290 1295
 Trp Ile Gly Leu Phe Arg Asn Val Glu Gly Thr Trp Leu Trp Ile Asn
 1300 1305 1310
 Asn Ser Pro Val Ser Phe Val Asn Trp Asn Thr Gly Asp Pro Ser Gly
 1315 1320 1325
 Glu Arg Asn Asp Cys Val Ala Leu His Ala Ser Ser Gly Phe Trp Ser
 1330 1335 1340
 Asn Ile His Cys Ser Ser Tyr Lys Gly Tyr Ile Cys Lys Arg Pro Lys
 1345 1350 1355 1360
 Ile Ile Asp Ala Lys Pro Thr His Glu Leu Leu Thr Thr Lys Ala Asp
 1365 1370 1375
 Thr Arg Lys Met Asp Pro Ser Lys Pro Ser Ser Asn Val Ala Gly Val
 1380 1385 1390
 Val Ile Ile Val Ile Leu Leu Ile Leu Thr Gly Ala Gly Leu Ala Ala
 1395 1400 1405
 Tyr Phe Phe Tyr Lys Lys Arg Arg Val His Leu Pro Gln Glu Gly Ala
 1410 1415 1420
 Phe Glu Asn Thr Leu Tyr Phe Asn Ser Gln Ser Ser Pro Gly Thr Ser
 1425 1430 1435 1440
 Asp Met Lys Asp Leu Val Gly Asn Ile Glu Gln Asn Glu His Ser Val
 1445 1450 1455
 Ile

<210> 6
 <211> 30
 <212> PRT
 <213> mus musculus C terminal DEC-205

<400> 6
 Arg Ser His Ile Arg Trp Thr Gly Phe Ser Ser Val Arg Tyr Glu His
 1 5 10 15
 Gly Thr Asn Glu Asp Glu Val Met Leu Pro Ser Phe His Asp
 20 25 30

<210> 7
 <211> 6
 <212> PRT
 <213> homo sapiens

<220>
 <221> VARIANT
 <222> 1, 2, 4, 5, 6
 <223> Xaa at position 1 is aromatic; Xaa at position 2
 and 4 are aliphatic; Xaa at position 5 and 6 are
 any of Asp, Asn, Glu, or Gln.

<400> 7

Xaa Xaa Gly Xaa Xaa Xaa
1 5

<210> 8
<211> 4
<212> PRT
<213> homo sapiens

<220>
<221> VARIANT
<222> 2, 4
<223> Xaa at position 4 is aliphatic; Xaa at position 2
is any of Asp, Asn, Glu, or Gln.

<400> 8
Glu Xaa Cys Xaa
1

<210> 9
<211> 4
<212> PRT
<213> homo sapiens

<220>
<221> VARIANT
<222> 1, 2, 4
<223> Xaa at position 1 is aromatic; Xaa at position 2
and 4 are aliphatic.

<400> 9
Xaa Xaa Gly Xaa
1

<210> 10
<211> 4
<212> PRT
<213> homo sapiens

<220>
<221> VARIANT
<222> 1, 3, 4
<223> Xaa at position 1 is Glu or Gln; Xaa at position 3
and 4 are Asp or Asn.

<400> 10
Xaa Pro Xaa Xaa
1

<210> 11
<211> 5
<212> PRT
<213> homo sapiens

<220>

<221> VARIANT

<222> 1, 2, 4, 5

<223> Xaa at position 1 is aromatic; Xaa at position 2 and 4 are aliphatic; Xaa at position 5 is any of Asp, Asn, Glu, or Gln.

<400> 11

Xaa Xaa Gly Xaa Xaa

1

5

<210> 12

<211> 5

<212> PRT

<213> homo sapiens

<220>

<221> VARIANT

<222> 2, 4, 5

<223> Xaa at position 5 is aliphatic or aromatic; Xaa at position 4 is aliphatic; Xaa at position 2 is any of Asp, Asn, Glu, or Gln.

<400> 12

Glu Xaa Cys Xaa Xaa

1

5